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07 MAMMALS

CHECKLIST RESERVA BIOLÓGICA SAN FRANCISCO (PROV. ZAMORA-CHINCHIPE, S. ECUADOR)

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INTRODUCTION

Between 1997 and 2005, 35 bat species were recorded by the first author and co-workers (see Acknowledgments) at four study sites around Podocarpus National Park in southeastern Ecuador: Reserva San Francisco (A), Bombuscaro (B), Cajanuma (C), and El Tiro pass (T). Bats were captured using mist nets (50 D/2, 16-mm mesh, 5 shelves, 2.8 m height) set on the ground along trails, across creeks, within the forest in front of bat-favored plants which were fruiting or flowering, and on a few occasions outside the forest or at its edge (for details, see Matt 2001). Frequency data refer only to species occurring within the forest of Reserva San Francisco; note that this is not necessarily the typical habitat for several of the species described. Identifications follow Albuja (1999) and Tirira (1999); voucher specimens are deposited at MEPN (Museo de la Escuela Politecnica Nacional, Quito).

Non-volant mammals remain virtually unstudied at Reserva San Francisco. In recognition of their important ecological role, we here provide a preliminary list based on reliable sightings, a minor trapping campaign by Alvarez *et al.* (2003), and a few vouchers at QCAZ (Museo de Zoología, Pontificia Universidad Católica del Ecuador, Quito). There is a study bias towards the lower reaches of the reserve, and small and nocturnal taxa are assumed to be under-represented. As species records are generally based on very few, in some cases single records, species frequencies are not given for non-volant mammals, and altitudinal ranges and vegetation types should be interpreted with caution. Records of non-volant mammals are only presented for Reserva Biológica San Francisco (A) and the nearby El Tiro pass (T).

Sightings of both terrestrial and arboreal mammals are strikingly more common in ravine forest than in ridge forest, which is possibly related to differences in physiognomy and productivity between these two forest types. Ridge vegetation at Reserva Biológica San Francisco is characterized by a substantially lower and more open canopy, denser understory, and lower rates of tree growth and turnover than ravine forest (Homeier 2004).

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Species	Locality	Elevation (m a.s.l.)	VT	Frequency	Chorotype	Degree of Novelty	Source/ Voucher
DIDELPHIOMORPHIA							
Didelphidae							
Didelphis albiventris Lund, 1840	A	1850	II				F. Werner
Marmosa sp.	A	1840	IIa				QCAZ 8334
Marmosops sp.	A	1850	IIa				QCAZ 8328
EDENTATA							
Dasypodidae							
Dasypus cf. *novemcinctus* Linnaeus, 1758	A	2000	II		Am		F.Matt
Megalonychidae							
Choloepus didactylus (Linnaeus, 1758)	A	1900	II		Am-S		F.Matt
Myrmecophagidae							
Tamandua tetradactyla Linnaeus, 1758	A	2000	IIa		Am-S		T.Shrives
SORICOMORPHA							
Soricidae							
Cryptotis equatoris Thomas, 1912	A	1840	IIa		End		QCAZ 8333
CHIROPTERA							
Emballonuridae							
Peropteryx kappleri Peters, 1867	B	900-1100	I		Am-C, S		
Saccopteryx bilineata (Temminck, 1838)	B	900-1100	I		Am-C, S		
Phyllostomidae							
Phyllostominae							
Chrotopterus auritus (Peters, 1856)	B	1000	I		Am-C, S		
Lophostoma cf. *yasuni* Fonseca, Pinto, 2004	B	1000	I		End		
Micronycteris megalotis (Gray, 1842)	A, B	900-2000	I, II	+	Am-C, S		

Glossophaginae						
Anoura caudifer (E. Geoffroy, 1818)	A, B, C, T	900-3000	I, II, III, IV, V	++	Am-C, S	
Anoura fistulata Muchhala, Mena-Valenzuela, Albuja, 2005	A, B	900-1900	I, II	r	End	
Anoura geoffroyi Gray, 1838	A, C, T	1800-3300	II, III, IV, V	++	Am-C, S	
Carollinae						
Carollia brevicauda (Schinz, 1821)	A, B	900-2000	I, II	++	Am-C, S	
Carollia castanea H. Allen, 1890	B	900-1400	I		Am-C, S	
Carollia perspicillata (Linaeus, 1758)	B	900-1400	I		Am-C, S	
Stenoderminae						
Artibeus phaeotis (Miller, 1902)	A, B	900-2100	I, II	++	Am-C, S	
Artibeus jamaicensis Leach, 1821	B	900-1100	I		Am-C, S	
Artibeus lituratus (Olfers, 1818)	B	900-1100	I		Am-C, S	
Enchisthenes hartii (Thomas 1892)	A, B, C, T	900-3100	I, II, III, IV, V	r	Am-C, S	MEPN 985153
Mesophylla macconnelli Thomas, 1901	A, B	900-2000	I, II	r	Am-C, S	
Platyrrhinus infuscus (Peters, 1880)	A, B	900-2000	I, II	++	Am-S	MEPN 985051
Platyrrhinus lineatus (E. Geoffroy, 1810)	A, B	900-2000	I, II	+	Am-S	
Sturnira ludovici Anthony, 1924	A, B, C, T	900-2900	I, II, III, IV, V	+++	Am-C, S	MEPN 985205
Sturnira bidens Thomas, 1915	A, B, C, T	900-3200	I, II, III, IV, V	++	Am-S	
Sturnira erythromos (Tschudi, 1844)	A, B, C, T	900-3200	I, II, III, IV, V	+++	Am-S	MEPN 985204
Sturnira lilium (E. Geoffroy, 1810)	B	900-1100	I		Am-C, S	
Uroderma bilobatum Peters, 1866	B	900-1100	I		Am-C, S	
Uroderma magnirostrum Davis, 1968	B	900-1100	I		Am-C, S	
Vampyressa pusilla (Wagner, 1843)	B	900-1100	I		Am-C, S	
Desmodontinae						
Desmodus rotundus (E. Geoffroy, 1810)	A, B	900-2000	I, II	+++	Am	
Vespertilionidae						
Eptesicus brasiliensis (Desmarest, 1819)	A, B, C, T	900-3100	I, II, III, IV, V	+	Am-C, S	MEPN 985206
Lasiurus borealis (Müller, 1776)	A, B, C, T	900-3300	I, II, III, IV, V	r	Am-C, S	
Myotis oxyotus (Peters, 1867)	A, B, C, T	900-3000	I, II, III, IV, V	++	Am-C, S	MEPN 985155
Myotis keaysi J.A. Allen, 1914	B	900-1100	I		Am-C, S	
Myotis nigricans (Schinz, 1821)	A, B	900-2100	I, II	+	Am-C, S	
Histiotus montanus (Philippi, Landbeck, 1861)	A, C, T	1800-3300	II, IIa, III, IV, V	r	Am-S	

Species	Locality	Elevation (m a.s.l.)	VT	Frequency	Chorotype	Degree of Novelty	Source/ Voucher
Molossidae							
Molossus ater (E. Geoffroy, 1805)	A, B	900-2100	I, II	r	Am-C, S		
Molossus molossus (Pallas, 1766)	B	900-1100	I		Am-C, S		
Tadarida brasiliensis (I. Geoffroy, 1824)	A, B	900-2500	I, II	r	Am		
PRIMATES							
Cebidae							
Aotus lemurinus (I. Geoffroy, 1843)	A	1800-2000	II		Am-C, S		F.Matt, A.Neninger
Ateles belzebuth E. Geoffroy, 1806	A	1800-2000	II		Am-S		F.Matt, P.Ramirez, M.Tschapka
Cebus albifrons (Humboldt, 1812)	A	1800-2100	II		Am-S		F.Matt, F.Werner, D.Paulsch
RODENTIA							
Agoutidae							
Agouti paca (Linnaeus, 1766)	A	1800	II		Am-C, S		F.Matt
Agouti taczanowskii (Stolzmann, 1865)	A	2200	II		A		Alvarez *et al.* 2003
Dasyproctidae							
Dasyprocta fuliginosa Wagler, 1832	A	1800-1900	II		Am-S		D.Paulsch, F.Werner
Erethizontidae							
Coendou cf. *bicolor* (Tschudi, 1844)	A	1850	IIa		Am-S		F.Werner
Cricetidae							
Akodon orophilus Osgood, 1913	A	1850	IIa		A-n		QCAZ 8335
Akodon sp.	A	1810-1840	IIa				QCAZ 8320
Oecomys bicolor (Tomes, 1860)	A	1800	II		Am-S		Alvarez *et al.* 2003
Oecomys sp.	A	1800	II				Alvarez *et al.* 2003
Oryzomys albigularis (Tomes, 1860)	A	1840	IIa		A-n		QCAZ 832

Sciuridae					
Sciurus granatensis Humboldt, 1811	A	1800-2100	II	Am-C, S	Alvarez *et al.* 2003, F.Matt, F.Werner
LAGOMORPHA					
Leporidae					
Sylvilagus brasiliensis (Linnaeus, 1758)	A, T	1900-2900	II, IIa	Am-C, S	F.Matt, F.Werner, M.Zimmermann
CARNIVORA					
Felidae					
Leopardus tigrinus (Schreber, 1775)	A	1800	II	Am-C, S	F.Matt
Oncifelis colocolo (Molina, 1782)	A	1800	II	Am-S	F.Matt
Mustelidae					
Conepatus semistriatus (Boddaert, 1784)	A	1900-2000	II	Am-C, S	G.Mendieta, A.Polster, F.Werner
Eira barbara (Linnaeus, 1758)	A	1800-1900	II	Am-C, S	F.Matt, D.Paulsch
Lontra longicaudis (Olfers, 1818)	A	1800	II	Am-C, S	G.Brehm, F.Matt
Mustela frenata Lichtenstein, 1831	A	2000-2100	II	Am	D.Paulsch, P.Ramirez
Procyonidae					
Nasua nasua (Linnaeus, 1766)	A	1800-2100	II	Am-S	J.Homeier, A.Kerr-Valentic, D.Paulsch
Potos flavus (Schreber, 1774)	A	1900	II	Am-C, S	D.Paulsch
Ursidae					
Tremarctos ornatus (Cuvier, 1825)	A, T	1900-2400	II	Am-S	F.Matt, P.Ortega, D.Veintemilla
PERISSODACTYLA					
Tapiridae					
Tapirus pinchaque Roulin, 1829	T	2800	II	A-n	F.Matt
ARTIODACTYLA					
Cervidae					
Pudu mephistophiles (de Winton, 1896)	A	3080	II	A	F.Matt
Odocoileus virginianus (Zimmermann, 1798)	A	1900	IIa	Am	F.Matt